

CLAIMS

1. A portable modular safety rail for protecting workers during building construction and remodeling comprising,

- 5 a) at least two upright stanchions having a front, a back, a right side, a left side, a top and a bottom, said bottom having a flat mounting plate attached there onto, with said mounting plate removably fastened onto a building,
- b) a plurality of connection members protruding from said right side and said left side of said stanchion,
- 10 c) at least two adjustable length rails engaging said connection members on each end forming a safety rail section module, and
- d) pivotal attachment means fastening said rails to said connecting members such that the safety rail may be horizontal when said stanchions are attached to a level surface or said stanchions may be angled to accommodate stairs.

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2. The portable modular safety rail as recited in claim 1 wherein said upright stanchions have a configuration selected from the group consisting of a square shape, a round shape, a rectangular shape, a channel shape, a structural beam shape and a polygonal shape.

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3. The portable modular safety rail as recited in claim 1 wherein said upright stanchions are formed of a material selected from the group consisting of steel, aluminum, fiberglass and thermoplastic.

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4. The portable modular safety rail as recited in claim 1 wherein said upright stanchions further comprise a cap on said top.

5. The portable modular safety rail as recited in claim 1 wherein each upright stanchion further comprises, said flat mounting plate having plurality of holes therethrough for bolting onto building surface.
- 5 6. The portable modular safety rail as recited in claim 1 wherein said connection members further comprise a plurality of round rings selected from the group consisting of welded rings, butted rings and weldless forged rings.
- 10 7. The portable modular safety rail as recited in claim 6 wherein said plurality of round rings are attached to said stanchions by a weld seam.
- 15 8. The portable modular safety rail as recited in claim 1 wherein said plurality of connection members further comprise a plate member having a radial end and a bore therein, welded with a weld seam to the stanchions.
- 20 9. The portable modular safety rail as recited in claim 1 wherein said plurality of connection members further comprise a pair of flat plates extending away from the stanchion's left side and right side, each flat plate attached to said stanchions on the front and the back forming a channel shape connecting member, said flat plates having bores therein for insertion of said pivotal attachment means.
- 25 10. The portable modular safety rail as recited in claim 1 wherein said adjustable length rails further comprise a outer section and an inner section forming a telescoping rail with the inner section slipping inside the outer section in an adjustable length manner, said rails further having a hole therethrough adjacent to each distal end and a notch top and bottom for receiving said pivotal attachment means.

11. The portable modular safety rail as recited in claim 1 wherein said adjustable length rails further having a shape selected from the group consisting of a square shape, a round shape, a rectangular shape and a polygonal shape.

5 12. The portable modular safety rail as recited in claim 11 wherein said adjustable length rails are formed from a material selected from the group consisting of steel, aluminum, fiberglass and thermoplastic.

10 13. The portable modular safety rail as recited in claim 1 wherein said adjustable length rails further comprise a chain.

14. The portable modular safety rail as recited in claim 13 wherein said chain includes a hook on each end for interfacing with said connection members to form an adjustable length.

15 15. The portable modular safety rail as recited in claim 1 wherein said pivotal attachment means further comprises a fastener selected from the group consisting of a safety snap pin, a hitch pin, a self locking clevis pin, a T-handle quick release pin, a pushbutton quick release pin, a ring-grip quick release pin, a T-handle quick release self locking pin, a self locking lynch pin, a snap lock pin and a hairpin cotter.

16. A portable modular safety rail for protecting workers during building construction and remodeling comprising,

- a) at least two upright stanchions each having a flat mounting plate for fastening onto a building,
- b) a plurality of connection members protruding from each stanchion, at least two adjustable length rails engaging the connection members, and
- c) attachment means for fastening the rails to the connecting members forming a safety rail section.

17. A portable modular safety rail for protecting workers during building construction and remodeling comprising a rail section module having an upright stanchion on each end attached to a building with telescoping rails pivotally attached
5 between each stanchion such that the rail section may be horizontal when said stanchions are attached to a level surface or said stanchions may be angled when accommodating stairs, also other rail section modules may be attached together to accommodate specific building dimensional requirements.